

A NEW KEY TO THE STORED-FOOD PESTS (INSECTS AND MITES)

J. Richard Gorham, Ph.D.
Scientist Director USPHS
Food and Drug Administration
Washington DC 20204

A new illustrated key to the insect and mite pests of stored and processed foods will soon be published as an Agriculture Handbook by the U. S. Department of Agriculture and as a Technical Bulletin by the Food and Drug Administration. Keys to approximately 600 taxa are complemented by some 2300 illustrations. 22 taxonomists wrote the keys. The geographic coverage varies from the USA to worldwide, but all the major cosmopolitan species are included. As a further aid to users of this key, there is an extensive bibliography of citations to additional taxonomic resources. Keys are provided to mites, cockroaches, beetles, moths, flies, ants, springtails, silverfish, psocids, thrips, aphids, scales, and parasitic wasps.

INSECT AND MITE PESTS IN FOOD: AN ILLUSTRATED KEY

Edited by J. R. Gorham

Part 1 (*frontispiece in color*)

Preface

| | |
|------------------------------|-------------------------------------|
| Editorial Note | J. R. Gorham |
| Introduction | L. V. Knutson |
| 1 Mites | R. L. Smiley |
| 2 Cockroaches | A. B. Gurney & F. W. Fisk |
| 3 Adult Beetles | J. M. Kingsolver |
| 4 Larval Beetles | D. M. Anderson |
| 5 Dermestid Beetles | J. M. Kingsolver |
| 6 Spider Beetles | T. J. Spilman |
| 7 Checkered Beetles | J. M. Kingsolver |
| 8 Sap Beetles | W. A. Connell |
| 9 Cryptophagid Beetles | J. M. Kingsolver |
| 10 Lathridiid Beetles | J. M. Kingsolver & F. G. Andrews |
| 11 Darkling Beetles | T. J. Spilman |
| 12 Seed Beetles | J. M. Kingsolver |
| 13 Weevils | D. R. Whitehead |
| 14 Adult Moths | D. C. Ferguson |
| 15 Larval Moths | D. M. Weisman |
| 16 Flies | R. J. Gagné |
| 17 Ants | D. R. Smith |

Part 2 (*frontispiece in color*)

| | |
|-------------------------------|----------------------------|
| 18 Classes and Orders | G. T. Okumura |
| 19 Larval Endopterygota | W. F. Enns |
| 20 Springtails | H. G. Scott |
| 21 Silverfish | P. W. Wygodzinsky |
| 22 Psocids | E. L. Mockford |
| 23 Thrips | G. T. Okumura & C. S. Papp |
| 24 Aphids | M. B. Stoetzel |
| 25 Scales | D. R. Miller |
| 26 Parasitic Wasps | G. Gordh & J. C. Hall |

Part 3

| | |
|---|------------------------------------|
| 27 Illustrations of Pest Species | A. D. Cushman, C. Feller, & others |
| 28 Arthropod Pests of the Food Industry: A List and Taxonomic Bibliography | J. R. Gorham |

Index